

# **ABSTRACT**

A three-dimensional position fixing system associated with the keyboard  
5 of a digital computer, the keyboard being provided with an array of passive keys  
which identify the numerals, letters, symbols and other values to be entered in  
binary code forms into the computer when the keys are touched by a finger of the  
operator. The system includes a responder mounted on the operator's finger and  
a transmitter-receiver assembly housed in the computer which cooperates with  
10 the responder to yield a signal indicative of the exact position of the finger when  
touching a particular key. Digitally stored in the data storage of the computer is a  
table listing the keyboard location of each key and the binary codes of the values  
identified by the keys. In operation, when an operator touches a particular key  
with his finger, the resultant signal indicative of the finger position acts to scan  
15 the table to select therefrom the key whose location matches the finger position,  
and then extracts the related binary code which is entered into the computer.